Kevin Smet

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61 papers	1,133 citations	19 h-index	33 g-index
67 ext. papers	1,312 ext. citations	2.9 avg, IF	4.86 L-index

#	Paper	IF	Citations
61	Development of the IES method for evaluating the color rendition of light sources. *Optics Express*, **2015**, 23, 15888-906	3.3	139
60	Correlation between color quality metric predictions and visual appreciation of light sources. *Optics Express*, **2011**, 19, 8151-66	3.3	88
59	Memory colours and colour quality evaluation of conventional and solid-state lamps. *Optics Express*, **2010**, 18, 26229-44	3.3	85
58	CRI2012: A proposal for updating the CIE colour rendering index. *Lighting Research and Technology*, **2013**, 45, 689-709	2	81
57	Colour appearance rating of familiar real objects. *Color Research and Application*, **2011**, 36, 192-200	1.3	70
56	A memory colour quality metric for white light sources. *Energy and Buildings*, **2012**, 49, 216-225	7	64
55	Tutorial: Color Rendering and Its Applications in Lighting. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2016**, 12, 7-26	3.5	50
54	Chromaticity of unique white in object mode. *Optics Express*, **2014**, 22, 25830-41	3.3	41
53	Linear LED tubes versus fluorescent lamps: An evaluation. *Energy and Buildings*, **2012**, 49, 429-436	7	39
52	Study of chromatic adaptation using memory color matches, Part I: neutral illuminants. *Optics Express*, **2017**, 25, 7732-7748	3.3	33
51	Why Color Space Uniformity and Sample Set Spectral Uniformity Are Essential for Color Rendering Measures. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2016**, 12, 39-50	3.5	31
50	Study of chromatic adaptation using memory color matches, Part II: colored illuminants. *Optics Express*, **2017**, 25, 8350-8365	3.3	31
49	Memory and preferred colours and the colour rendition of white light sources. *Lighting Research and Technology*, **2016**, 48, 393-411	2	25
48	Experimental driven modelling of the color appearance of unrelated self-luminous stimuli: CAM15u. *Optics Express*, **2015**, 23, 12045-64	3.3	25
47	Chromaticity of unique white in illumination mode. *Optics Express*, **2015**, 23, 12488-95	3.3	24
46	Cross-cultural variation of memory colors of familiar objects. *Optics Express*, **2014**, 22, 32308-28	3.3	24
45	Brightness perception of unrelated self-luminous colors. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2013**, 30, 1248-55	1.8	22

44	Impact of Illumination Correlated Color Temperature, Background Lightness, and Painting Color Content on Color Appearance and Appreciation of Paintings. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2020**, 16, 25-44	3.5	22
43	Optimization of colour quality of LED lighting with reference to memory colours. *Lighting Research and Technology*, **2012**, 44, 7-15	2	21
42	Optimal colour quality of LED clusters based on memory colours. *Optics Express*, **2011**, 19, 6903-12	3.3	18
41	LRT symposium Better metrics for better lighting a summary. *Lighting Research and Technology*, **2014**, 46, 619-636	2	17
40	A simple principled approach for modeling and understanding uniform color metrics. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2016**, 33, A319-31	1.8	16
39	Toward a Replacement of the CIE Color Rendering Index for White Light Sources. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2016**, 12, 61-69	3.5	15
38	Two Neutral White Illumination Loci Based on Unique White Rating and Degree of Chromatic Adaptation. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2018**, 14, 55-67	3.5	14
37	Tutorial: The LuxPy Python Toolbox for Lighting and Color Science. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2020**, 16, 179-201	3.5	14
36	Impact of cross-regional differences on color rendition evaluation of white light sources. *Optics Express*, **2015**, 23, 30216-26	3.3	12
35	Predicting the brightness of unrelated self-luminous stimuli. *Optics Express*, **2014**, 22, 16298-309	3.3	12
34	Color appearance model for self-luminous stimuli. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2018**, 35, 2000-2009	1.8	12
33	Brightness prediction of different sized unrelated self-luminous stimuli. *Optics Express*, **2015**, 23, 13455-66	3.3	8
32	Methods for Assessing Quantity and Quality of Illumination. *Annual Review of Vision Science*, **2019**, 5, 479-502	8.2	7
31	Effect of adapting field size on chromatic adaptation. *Optics Express*, **2020**, 28, 17266-17285	3.3	7
30	Brightness Model for Neutral Self-Luminous Stimuli and Backgrounds. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2018**, 14, 231-244	3.5	7
29	Analysis of painted artworks' color appearance under various lighting settings **2017**,		6
28	Impact of the starting point chromaticity on memory color matching accuracy. *Optics Express*, **2019**, 27, 35308-35324	3.3	6
27	A Vector Field Color Rendition Model for Characterizing Color Shifts and Metameric Mismatch. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2020**, 16, 99-114	3.5	6

26	Safety perception of stairs with integrated lighting. *Building and Environment*, **2019**, 166, 106389	6.5	4
25	THE INFLUENCE OF ADAPTING FIELD SIZE ON DEGREE OF CHROMATIC ADAPTATION **2018**,		4
24	Exploring the applicability of the CAM18sl brightness prediction. *Optics Express*, **2019**, 27, 14423-14436	3.3	4
23	Improved and Robust Spectral Reflectance Estimation. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2021**, 17, 359-379	3.5	4
22	Impact of Color-Matching Primaries on Observer Matching: Part I Accuracy. *LEUKOS - Journal of Illuminating Engineering Society of North America*,1-23	3.5	4
21	Tuning color and saving energy with spatially variable laser illumination. *Optics Express*, **2019**, 27, 27136-27150	3.3	3
20	Some concerns regarding the CAT16 chromatic adaptation transform. *Color Research and Application*, **2020**, 45, 172-177	1.3	3
19	Using Smooth Metamers to Estimate Color Appearance Metrics for Diverse Color-Normal Observers.. *Color Research and Application*, **2022**, 47, 555-564	1.3	2
18	PILOT STUDY ON COLOR MATCHING ACCURACY USING DIFFERENT PRIMARIES **2019**,		2
17	Towards a New Colour Appearance Model for Self-luminous Stimuli. *Journal of Science and Technology in Lighting*, **2018**, 41, 153-164	0.1	1
16	Assessing the application of an image color appearance model to basic self-luminous scenes. *Color Research and Application*, **2019**, 44, 848-858	1.3	1
15	A Comparison of Partition Scaling and Magnitude Estimation for Brightness Scaling. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2021**, 17, 265-279	3.5	1
14	Relationship between pupillary size, brightness, and photoreceptor responses for unrelated self-luminous stimuli at low photopic light levels. *Color Research and Application*, **2020**, 45, 977-991	1.3	1
13	Visualization of Lighting Quality and Object Appearance When Using Multichannel Light Sources. *LEUKOS - Journal of Illuminating Engineering Society of North America*,1-14	3.5	1
12	Derivation of Brightness Scales Using Partition Scaling. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2021**, 17, 125-139	3.5	1
11	Color appearance model incorporating contrast adaptation - implications for individual differences in color vision. *Color Research and Application*, **2021**, 46, 759-773	1.3	1
10	Impact of Color Matching Primaries on Observer Matching: Part II Observer Variability. *LEUKOS - Journal of Illuminating Engineering Society of North America*,1-18	3.5	1
9	CAM18sl brightness prediction for unrelated saturated stimuli including age effects. *Optics Express*, **2021**, 29, 29257-29274	3.3	1

List of Publications

8	Road Marking Contrast Threshold Revisited. *LEUKOS - Journal of Illuminating Engineering Society of North America*,1-20	3.5	1
7	34-1: Evaluating and Minimizing Color Distortion in Wide-Gamut Displays Due to Variations of Cone Fundamentals among Color-Normal Observers. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 450-453	0.5	0
6	Improved Method for Evaluating and Specifying the Chromaticity of Light Sources. *LEUKOS - Journal of Illuminating Engineering Society of North America*,1-18	3.5	0
5	Magnetically stabilized high pressure discharge in air. *European Physical Journal D*, **2000**, 50, 309-312		
4	Application specific extension of the MCRI: Memory colors and preferred colors of reddish meat products. *Color Research and Application*, **2018**, 43, 899-906	1.3	
3	Towards an image-based brightness model for self-luminous stimuli.. *Optics Express*, **2022**, 30, 9035-9052	3.3	
2	Predictive performance of the standard and the modified von Kries chromatic adaptation transforms.. *Optics Express*, **2022**, 30, 11872-11891	3.3	
1	Multi-Channel LED Luminaires: An Object-Oriented Approach for Retail Lighting Based on the SOR Framework. *Sustainability*, **2022**, 14, 5994	3.6	